

ABSTRACT

ISOLATION OF MICROWAVE TRANSMISSION LINES

- 5 An optical waveguide is formed over a substrate, with an insulating planarization layer formed adjacent the optical waveguide and level with the top of the waveguide. A microwave transmission line is formed over the planarization layer and overlies a top surface of the
- 10 optical waveguide. In this circuit, isolation of a microwave transmission line is provided by forming the line over a planarization layer which fills the space adjacent to an optical waveguide structure. The transmission line can then contact electrically the top
- 15 surface of the waveguide structure but is isolated from the substrate which supports the waveguide.

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